

**16TH INTERNATIONAL
SCIENTIFIC CONGRESS
CNIC 2015**

PROGRAM



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MENSAJE DE BIENVENIDA

Estimados delegados e invitados:

El Centro Nacional de Investigaciones Científicas, en ocasión del 50 Aniversario de su fundación, celebra el XVI Congreso Científico Internacional CNIC'2015 en el Palacio de las Convenciones de La Habana, Cuba.

Es para nosotros un honor el haber participado en la organización de este evento. En esta edición, el programa incluye conferencias plenarias, conferencias temáticas, presentaciones orales y carteles, abarcando nueve áreas de investigación científica. También se presenta una Feria Exposición Asociada.

En los próximos días, colegas de cinco Continentes intercambiaremos experiencias. Nuestros 480 distinguidos expositores compartirán con nosotros sus resultados más relevantes aplicados fundamentalmente a la salud y el medio ambiente. Tenemos el agrado de haber recibido más de 500 contribuciones para presentaciones libres orales y en cartel.

Estamos seguros de que el calor caribeño que caracteriza a nuestro país los acogerá en un ambiente donde ustedes podrán pasar días de fructífero intercambio científico y de esparcimiento que, a su vez, contribuirán a aumentar y estrechar más nuestras relaciones de amistad y de colaboración.

¡Bienvenidos!

*Comité Organizador
Junio 22, 2015*

WELCOME

Dearest delegates and guests:

The National Center for Scientific Research celebrates the 16th International Scientific Congress CNIC'2015 at the International Conference Center of Havana, Cuba, on the 50th anniversary of its founding.

It is an honor for us to have been involved in organizing this event. In this edition, the program includes plenary lectures, thematic conferences, oral presentations and posters, covering nine areas of scientific research. An Exhibition Fair will also take place.

Colleagues of five continents will share experiences in the coming days. Our 480 distinguished speakers will share their most relevant results mainly applied to health and to the environment. We are pleased to have received more than 500 contributions for posters and oral presentations.

We are confident that the Caribbean warmth, which characterizes our country, will host you in a nice environment in which you will spend days of fruitful scientific exchange and amusement, which, in turn, will contribute to increase and strengthen our ties of friendship and cooperation.

Welcome to Cuba!

*Organizing Committee
June 22nd, 2015*

GENERAL PROGRAM

ORGANIZING COMMITTEE / COMITÉ ORGANIZADOR

Honorary President / Presidente de Honor

Dr. Carlos M. Gutiérrez Calzado

President / Presidenta

Dra. Blanca Rosa Hung Llamas

Executive Secretary / Secretario Ejecutivo

Dr. Ricardo Arencibia Jorge

Scientific Secretary / Secretario Científico

Dr. Rafael Fando Calzada

Publicity Secretaries/Secretarios de Divulgación

MSc. Juan A. Araujo Ruiz

Ing. Alianna Formoso Mieres

Exhibition Fair Organizers/Organizadores Feria Expositiva

Dr. Rafael Gámez Menéndez

Lic. Raúl González Castro

Professional Organizer of Event / Organizador Profesional de Eventos

Lic. Migdalia Luna Cisneros

Havanatur Event Reception / Receptivo Oficial Havanatur

Ing. Caridad Sagó Rivera

**COMITÉ CIENTÍFICO NACIONAL /
NATIONAL SCIENTIFIC COMMITTEE**

Dra. Blanca Rosa Hung Llamos
General Director, CNIC

Dr. Rafael A. Fando Calzada
Director, Division of Infectious Diseases

Dr. Sarahí Mendoza Castaño
Director, Center of Natural Products

Dr. Mayra Bataller Venta
Director, Division of Environment

Dr. Leila Cabrera Rabí
Director, Division of Production

Dr. Ricardo Arencibia Jorge
Director, Division of Organization and International Relations

Dr. Ma. del Carmen Espinosa Lloréns
Division of Environment

Symposia Coordinators:

Dr. David Marrero Delange
MSc. Irán Fernández Torres
Lic. Jorge Félix Beltrán Lissabet
Dr. José Luis Calunga Fernández
MSc. Javier Mosquera Sierra
MSc. Juan Antonio Araujo Ruiz
Lic. Beatriz García Delgado
Lic. Clara Carmen Llanes Sánchez
MSc. Sandra Rodríguez Salgueiro

GENERAL PROGRAM

COMITÉ CIENTÍFICO INTERNACIONAL / INTERNATIONAL SCIENTIFIC COMMITTEE

Dr. Mara Murillo

Deputy Regional Director of United Nation Environmental Programm.
Regional Office for Latin America and the Caribbean.

Prof. Dr. Ludger Wessjohann

Executive Director, Leibniz Institute of Plant Biochemistry (IPB),
Germany

Dr. Kevin Spelman

Maryland University of Integrative Health, United States of America.

Dr. Wilfredo Irrazabal Urruchi

Director, Institute of Applied Sciences Valle de Paraíba (ICAVP), Brazil.

Dr. Humberto Carrillo Calvet

Faculty of Sciences, National Autonomous University of Mexico
(UNAM), Mexico.

Lic. Elsa Beatriz Acevedo Pineda

Science, Technology, Society and Innovation (CTSI), Colombia.

Prof. Alessandro C. Griffini

President of the International Association for Media in Science (IAMS),
Italy.

GENERAL PROGRAM

GENERAL INFORMATION

VENUE

The Havana International Conference Center is the venue of the event, holding all its working sessions. Among the general facilities, the Center has boutique, bookstore, general call and call to the parking lot.



OFFICE OF THE ORGANIZING COMMITTEE

The Organizing Committee and the Scientific Committee are located in the office 1105 located in the first floor, phone number: 209-6435. It is also possible to make phone calls using the following numbers: 202- 6011 to 19, extension 1105.

INFORMATION DESK

The Information Desk # 1 will be available during the days of the event to attend information requests. It is located in the main lobby of the Center. Telephone numbers: 208-0450, 208-7558 and 202-6011 to 19, extensions 1210 and 1211.



The venue of the event counts with a taxi rental service, located in the ground floor, at the Delegate's Entrance.

TAXI SERVICE

MEDICAL CARE SERVICES

The Center provides medical care services during the days of the event. They can be found in the ground floor, office # 617, phone number: 208 6043. The dentistry service is available in the office # 619, phone number: 208-3775.



TOURIST DESK

Tourist desks are located in the different hotels where the participants of the event lodge in order make reservations to visit tourist centers and other places of interest

INTERNATIONAL CALL CENTER

It is situated in the first floor, next to the cafeteria. It provides services such as: international call, as well as phone card, stamp, postcard and souvenirs sale.



The Business Center of the "Palco" Hotel offers fax services, Internet access, e-mail, printing of documents, photocopying, cell phone rental and sale of newspapers from 08:30 to 17:00 hours.

GENERAL PROGRAM

GASTRONOMIC SERVICES



"El Bucán" restaurant: it is located in the ground floor of the Havana International Conference Center, in front of the main entrance. It offers lunch service for participants from 12:00 to 14:30 hours.

Bar-Cafeteria: it is situated in the first floor and also offers lunch service from 12:00 to 15:00 hours.

Snack bars: they are located in the first floor and offer coffee, tea, beverages and snacks.

AUDIOVISUAL AIDS

Conference rooms are equipped with:

- Data projector
- Computer



Presentations in CD, DVD, flash memories and other mass storage devices that come with the papers must be submitted in the Audiovisual Aids Office, located next to the Information Desk # 1, one day before the presentation and during the session hours. They will not be accepted in the Working Rooms.

POSTER AREA

Posters must be in its assigned place before the hour assigned in the program.

Authors must retire posters immediately after the presentation time.

GENERAL PROGRAM

INFORMACIÓN GENERAL

SEDE

La sede del evento es el Palacio de Convenciones de La Habana, en cuyas instalaciones se celebrarán todas las sesiones de trabajo. Entre las facilidades generales, el Palacio cuenta con boutique, librería, llamada general y llamada a parqueo.



PALACIO DE CONVENCIONES DE LA HABANA



OFICINA DEL COMITÉ ORGANIZADOR

El Comité Organizador y el Comité Científico radican en la oficina 1105 ubicada en la planta alta, con el teléfono 2096435. También podrá comunicar por la pizarra 202-6011 al 19, extensión 1105.

OFICINA DE INFORMACIÓN

Durante los días del evento funcionará el Buró de Información No. 1 que se encuentra ubicado en el vestíbulo principal del Palacio de Convenciones. Teléfonos 208-0450, 208-7558 y 202-6011 al 19, extensiones 1210 y 1211, donde Ud. podrá solicitar cualquier información.



SERVICIO DE TAXIS

En la sede del evento funciona un servicio de alquiler de taxis ubicado en la planta baja, en la Entrada de Delegados.

POSTA MÉDICA

La posta médica brinda servicio durante todo el tiempo que sesione el evento. Está ubicada en la planta baja, local 617, teléfono: 208-6043 y los servicios estomatológicos en el local 619, teléfono: 208-3775.



BUREOS DE TURISMO

Los Bureos de Turismo radican en los diferentes hoteles donde se alojan los participantes, los que pueden solicitar reservaciones para visitar centros turísticos y otros lugares de interés.

CENTRO DE COMUNICACIONES INTERNACIONALES

Se encuentra ubicado en la primera planta, próximo a la cafetería y brinda servicios de llamadas internacionales, venta de tarjetas telefónicas, sellos, postales y souvenirs.



El Centro de Negocios del Hotel Palco dispone de facilidades para el envío de fax, acceso a Internet, correo electrónico, impresión de documentos, fotocopias, alquiler de celulares y venta de periódicos en el horario de 08:30 - 17:00 horas.

SERVICIOS GASTRONÓMICOS



Restaurante “El Bucán”, situado en la planta baja, frente a la entrada principal, ofrece servicio de almuerzo a los participantes, en el horario de 12:00 a 14:30 horas.

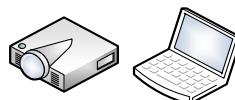
Restaurante – Cafetería, ubicado en la primera planta, brinda también servicio de almuerzo entre las 12.00 y las 15:00 horas.

Snack Bars, ubicados en la primera planta, con ofertas de café, té, bebidas y alimentos ligeros.

MEDIOS AUDIOVISUALES

Las salas de conferencias disponen para las presentaciones de:

- Proyector de datos
- Computadora



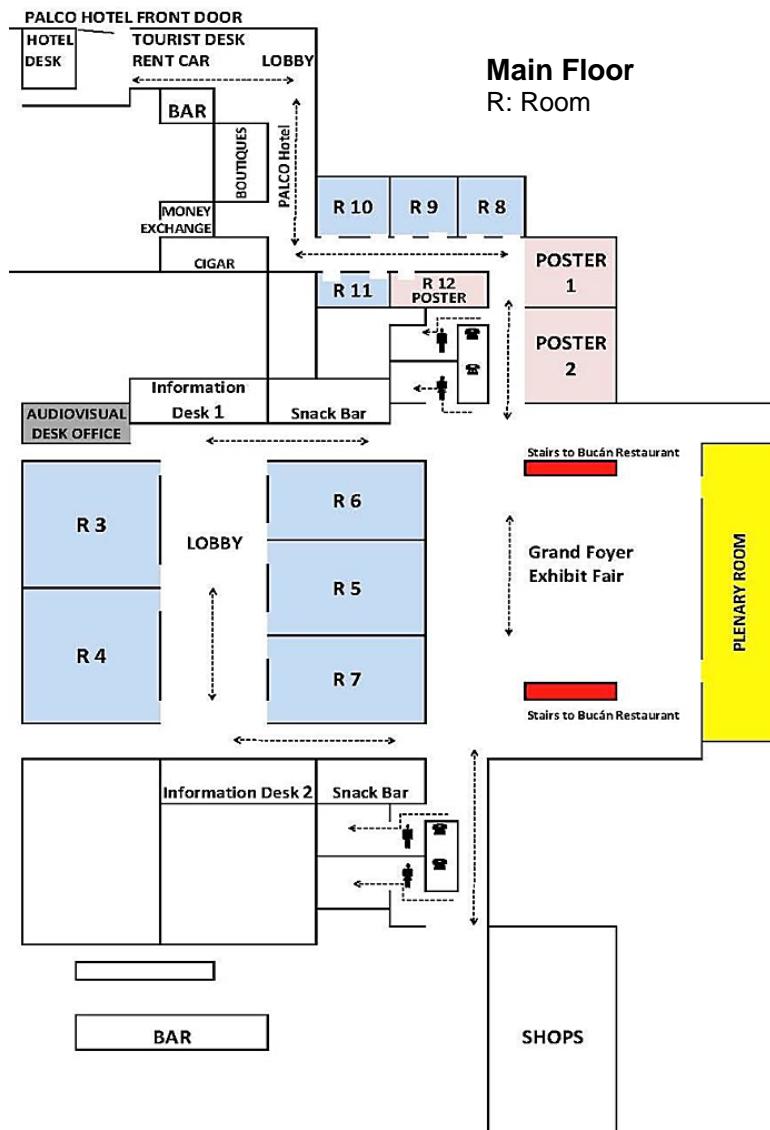
Las presentaciones en CD, DVD, memorias USB y otros medios de almacenamiento masivo, que acompañen los trabajos debe ser entregados por los propios ponentes en la Oficina de Recepción de Medios Audiovisuales, ubicada al lado del Buró de Información No. 1, un día antes de su presentación y en el horario en que se encuentre sesionando el evento. No se aceptarán en las Salas de Trabajo.

AREA DE POSTER

Los posters deben colocarse en la tablilla asignada antes de la hora señalada en el programa.

Los posters deben ser desmontados inmediatamente después de su presentación.

GENERAL PROGRAM



GENERAL PROGRAM

GENERAL PROGRAM / PROGRAMA GENERAL

Monday, June 22th		Room
08:30 - 18:00	Accreditation	Accreditation Room
10:00 - 12:30	Pre-Congress Courses	5, 6, 7, 11
12:30 - 14:00	Lunch	El Bucán
14:00 - 18:00	Pre-Congress Courses	5, 6, 7, 11
Tuesday, June 23th		
08:30 - 12:30	Accreditation	Accreditation Room
08:30 - 12:30	Pre-Congress Courses	5, 6, 7, 11
9:00	Fair Opening	Grand Foyer
12:30 - 14:00	Lunch	Bucán
14:00 - 14:15	Opening ceremony. Welcome	Plenary Room
14:15 - 14:45	Plenary Keynote Dr. Blanca Rosa Hung, President, Organizing Committee	
14:45 - 15:15	Solfa Choir Concert	
15:15 - 15:45	Presentation of the Scientific Program of the XVI International Scientific Congress CNIC' 2015	
15:45 - 16:45	Plenary Keynote –Dr. Mara Murillo (UNEP)	
18:00	Welcome Cocktail	El Bucán

GENERAL PROGRAM

Oral P - Oral Presentations

Wednesday, June 24th			
Symposium	Room	Time	
Symposium on Natural Products 2015	Oral P	3	08:30 – 12:30
	Oral P	3	14:00 – 15:00
	Posters	12	15:00 – 17:30
VI International Symposium on Environment	Oral P	4	09:00 – 12:35
	Oral P	4	14:00 – 17:30
IV Symposium on Infectious Diseases and Vaccines	Oral P	5	08:30 – 12:30
	Oral P	5	14:00 – 17:30
VII International Symposium on Medical Applications of Ozone	Oral P	11	09:30 – 12:30
	Posters	12	12:30 – 13:00
	Oral P	11	14:00 – 17:00
II International Symposium on Technological Surveillance	Oral P	9	09:00 – 13:00
International Workshop on New Developments on Pharmaceutical Finished Dosage Forms and Industrial Processes	Oral P	9	14:00 – 17:30
II International Workshop on Scientometric Studies	Oral P	7	09:00 – 13:10
	Oral P	7	14:30 – 17:30
Media for Science: VIDEOCIENCIA 2015	Films exhibition	6	08:30 – 12:30
	Films exhibition	6	14:00 – 17:00
Fair Exhibition	Presentations	Grand Foyer	09:00 – 17:00
Special Social Activity	ProDanza Ballet Concert	Cuban National Theater	20:30

GENERAL PROGRAM

Oral P - Oral Presentations

Thursday, June 25 th			
Symposium	Room	Time	
Symposium on Natural Products 2015	Oral P	3	08:30 – 12:30
	Oral P	3	14:00 – 17:00
VI International Symposium on Environment	Oral P	4	08:30 – 12:50
	Posters	12	14:30 – 17:00
IV Symposium on Infectious Diseases and Vaccines	Oral P	5	08:30 – 10:10
	Oral P	5	14:00 – 17:30
	Posters	12	10:30 – 12:30
VII International Symposium on Medical Applications of Ozone	Oral P	11	14:00 – 17:15
International Workshop on New Developments on Pharmaceutical Finished Dosage Forms and Industrial Processes	Posters	12	9:00 – 12:00
I Workshop on Innovation and Knowledge Management	Oral P	7	14:00 – 15:40
	Posters	12	15:40 – 16:10
	Oral P	7	16:10 – 17:45
II International Workshop on Scientometric Studies	Oral P	9	09:00 – 13:00
Media for Science: VIDEOCIENCIA 2015	Films presentation	6	08:30 – 12:30
	Films presentation	6	08:30 – 12:30
Fair Exhibition	Presentations	Grand Foyer	14:00 – 17:00

GENERAL PROGRAM

Friday, June 26 th			
Symposium	Room	Time	
VI International Symposium on Environment	Oral P	4	08:30 – 12:30
Media for Science: VIDEOCIENCIA 2015	Jury's Deliberation	6	09:00 – 11:00
	Closure and Awards Ceremony	6	11:00 – 12:00
Fair Exhibition Closure	Grand Foyer		12:00
Congress Closing Ceremony	Plenary Room		13:00 – 14:00
Farewell Lunch	El Bucán		14:00 – 17:00

Exhibition Fair 2015

President: Dr. Rafael Gámez Menéndez (Cuba)
Secretary: Ing. Natacha González Reyes (Cuba)

Location:
**Grand
Foyer**

Tuesday 23th

Time	Activity
09:00-10:00	Fair Opening
10:00-12:30	Companies presentations
12:30	Lunch
14:00-17:30	Companies presentations

Wednesday 24th – Thursday 25th

Time	Activity
09:00-12:30	Companies presentations
12:30	Lunch
14:00-17:30	Companies presentations

Friday 26th

Time	Activity
09:00-12:00	Companies presentations
12:00-12:45	Exhibition Fair closing ceremony
12:30	Lunch

Oral Presentations

Session 1

Room:

3

Chairman: Dr. Daisy Carbajal Quintana (Cuba)

Secretary: Dr. Yohani Pérez Guerra (Cuba)

Time	Title	Speaker	Country
08:30-09:30	The science of chemical complex natural products: network pharmacology (Master Lecture). SPN-L-001.	Kevin Spelman	USA
09:30-09:45	Therapeutic effects of policosanol and atorvastatin against global brain ischemia-reperfusion injury in gerbils. SPN-O-001.	Vivian Molina	Cuba
09:45-10:00	Comparison of policosanol and grape seed extract on global cerebral isquemia in Mongolian gerbils. SPN-O-002.	Vivian Molina	Cuba
10:00-10:15	Effects of policosanol on the recovery of ischemic stroke: a randomized controlled study. SPN-O-003.	Javier Vicente Sánchez	Cuba
10:15-10:30	Effects of policosanol plus aspirin therapy on the neurological recovery and plasma oxidative markers of patients with ischemic stroke. SPN-O-004.	Javier Vicente Sánchez	Cuba
10:30-10:45	Extraction of phenolic compounds with antioxidant activity of Champa (<i>Campomanesia lineatifolia</i>). SPN-O-005.	Ángela María Otálvaro	Colombia
10:45-11:00	Hypoglycemic and hypolipidemic effects of aqueous extract of "Estrella Dorada" in experimentally induced diabetic rats. SPN-O-006.	Carolina Álvarez	Chile
11:00-11:15	Preliminary phytochemical analysis, antioxidant activity and inhibiting the angiotensin-converting enzyme (ACE) of the ethanol extract of the leaves of <i>Passiflora quadrangularis L.</i> SPN-O-007.	Lesly L. Bareño	Colombia
11:15-11:30	<i>Cymbopogon citratus</i> aqueous fraction does not protect against UVC damage in <i>Caulobacter crescentus</i> . SPN-O-009.	Fabiana Fuentes	Cuba
11:30-11:45	Comparison of antioxidants properties and polyphenols content of aqueous extract from seaweeds <i>Bryothamnion triquetrum</i> and <i>Halimeda opuntia</i> . SPN-O-010.	Daylín Díaz	Cuba

Time	Title	Speaker	Country
11:45-12:00	Structural identification of obtained compounds from the ethanolic extract of <i>Dioscorea bartlettii Morto</i> . SPN-O-011.	Irais Ceja-Ochoa	Mexico
12:00-12:15	Influence of operating conditions on the extraction of polyphenols from <i>Moringa oleifera</i> Lam leaves. SPN-O-012.	Geidy V. Valdés	Cuba
12:15-12:30	<i>In vitro</i> evaluation of three biological agents against ticks <i>Otobius megnini</i> y <i>Rhipicephalus</i> (<i>Boophilus</i>) <i>microplus</i> in the state of Mexico. SPN-O-013.	Susana G. Gayón	Mexico
12:30	Lunch		

Oral Presentations

Session 2

Room:

3

Chairman: Dr. Sarahi Mendoza Castaño (Cuba)

Secretary: MSc. Roxana Sierra Pérez (Cuba)

Time	Title	Speaker	Country
14:00-15:00	Synthesis and evaluation of exo- methylene butyrolactone natural products- can they be made into drugs (Master Lecture). SPN-L-002.	Oliver Reiser	Germany

Posters

Session 3

Chairman: Dr. Sarahi Mendoza Castaño (Cuba)

Secretary: MSc. Roxana Sierra Pérez (Cuba)

Room:

12

Time: 15:00-17:30

Poster No	Title	Main Author	Country
SPN-P-001	Effects of policosanol pre-treatment on blood-brain barrier damage and inflammatory markers after ischemia-reperfusion brain injury in rats	Yohani Pérez	Cuba
SPN-P-002	Comparative study of the preventive effects of Policosanol and the omega-3 fatty acid of fish oil in models of cerebral ischemia.	Liset Mena	Cuba
SPN-P-003	Long term stability study of D002 active ingredient.	Carmen L. Morales	Cuba
SPN-P-004	Long term stability study of 20 mg Policosanol tablets in blisters.	Roxana Sierra	Cuba
SPN-P-005	Stability of Abexol® tablets in blisters and high density polyethylene flasks.	Victor L. González	Cuba
SPN-P-006	Inhibition of cyclooxygenase and 5-lipoxygenase enzymes by D-002 (beeswax alcohols).	Yohani Pérez	Cuba
SPN-P-007	Effects of D-002 (beeswax alcohols), grape seed extract and their combined therapy on oxidative markers in rat plasma and liver.	Ambar Oyárbabal	Cuba
SPN-P-008	Protective effect of D-002, a mixture of beeswax alcohols, against indomethacin-induced gastric ulcers and mechanism of action.	Yohani Pérez	Cuba
SPN-P-009	Effects of D-002 on models of acute inflammation.	Daisy Carbajal	Cuba
SPN-P-010	Effects of D-002 on aspirin induced ulcers and neutrophil infiltration on the gastric mucosa.	Maikel Valle	Cuba
SPN-P-011	Effects of D-002 and Grape Seed Extract on monoiodine-acetate induced osteoarthritis in rats	Sarahí Mendoza	Cuba
SPN-P-012	Effects of D-002, a mixture of high molecular weight beeswax alcohols, on patients with non-alcoholic fatty liver disease (NAFLD).	José Illnait	Cuba
SPN-P-013	Effects of D-002 (beeswax alcohols) on gastrointestinal symptoms and oxidative markers in middle-aged and older patients.	Lilia Fernández	Cuba

Poster No	Title	Main Author	Country
SPN-P-014	Three years of long term stability of 5 mg Prevenox tablets in blisters.	Víctor L. González	Cuba
SPN-P-015	Effects of D-003 in the vertebrae and lipid profile in a model of osteoporosis induced by glucocorticoid and ovariectomy in rabbits.	Maikel Valle	Cuba
SPN-P-016	Effects of D-003 and a soy standarized extract rich in daidzein on induced osteoporosis in ovariectomized rats.	Miriam Noa	Cuba
SPN-P-017	Effects of D-003 on quality of life in postmenopausal women at moderate to high risk of osteoporosis.	Julio C. Fernández	Cuba
SPN-P-018	Effects of D-003, a mixture of sugarcane wax acids, on bone marrow lesions, subchondral bone and cartilage damage in monoiodoacetate-induced osteoarthritis	Miriam Noa	Cuba
SPN-P-019	Stability of D-004 active ingredient in amber glass and high density polyethylene flasks.	Eduardo A. Rodríguez	Cuba
SPN-P-020	Preliminary stability of soft gelatin capsules with D-004 active ingredient.	Eduardo A. Rodríguez	Cuba
SPN-P-021	Determination of degradation products of D004 Active Ingredient.	Roxana Vicente	Cuba
SPN-P-022	One year oral Toxicity of D-004, a lipid extract from <i>Roystonea regia</i> fruits, in Sprague Dawley rats.	Ariadne Gutiérrez	Cuba
SPN-P-023	Reproductive Toxicity of D-004, a lipid extract from <i>Roystonea regia</i> fruits, in Sprague Dawley rats.	Ariadne Gutiérrez	Cuba
SPN-P-024	Teratogenesis of D-004 in rabbits.	Ariadne Gutiérrez	Cuba
SPN-P-025	Effects of D-004 and anti-oxidant and/or anti-inflammatory substances on prostatic hyperplasia induced by testosterone and phenylephrine in rats.	Ambar Oyárzabal	Cuba
SPN-P-026	Effects of oral treatment (60 days) with D-004, a lipidic extract from <i>Roystonea regia</i> fruits, on the rat prostate hyperplasia and oxidative markers.	Ambar Oyárzabal	Cuba
SPN-P-027	Characterization of vegetable material and oil obtained from <i>Acrocomia crispa</i> fruits.	Roxana Sierra	Cuba
SPN-P-028	Characterization of D005 a lipidic extract from <i>Acrocomia crispa</i> fruits.	Roxana Sierra	Cuba
SPN-P-029	Determination of the oil and fatty acid content in fruits of palms that grown in Cuba.	Eduardo A. Rodríguez	Cuba

Poster No	Title	Main Author	Country
SPN-P-030	Fatty acids profile of two species of Lamiaceae that grown in Cuba.	David Marrero	Cuba
SPN-P-031	Study of the methanolic extract from <i>Terminalia catappa</i> leaves.	David Marrero	Cuba
SPN-P-032	Determination of arsenic in natural products by hydride generation – atomic absorption spectrometry.	Bárbara E. Luna	Cuba
SPN-P-033	Characterization of by-product from the obtaining process of propolis for its possible use as nutritional supplement.	José M. Martínez	Cuba
SPN-P-034	Study of the behavior of oral Oleozón manufactured in a new production place under conditions of accelerated stability.	Clara Becquer	Cuba
SPN-P-035	"Medicinal Plants" Interactive Guide.	Nelson Melgarejo	Cuba
SPN-P-036	Evaluation of the anti-inflammatory activity of <i>Sedum praealtum</i> (always live) coming from the municipality of San Martín de las Pirámides, state of Mexico.	Blanca M. Berdeja	Mexico
SPN-P-037	Evaluation of the antibabesic activity of three plant species in mice infected with <i>Babesia microti</i> .	María L. Hernández	Mexico
SPN-P-038	Determination of adsorption capacity of textile dyes by Peanut shell (<i>Arachis hypogaea</i>) and parchment coffee (<i>Coffea arabica</i>).	María L. Hernández	Mexico
SPN-P-039	<i>In vitro</i> activity of some fractions from extract of <i>Ruta graveolens</i> against <i>Trypanosoma cruzi</i> NINOA strain.	María L. Hernández	Mexico
SPN-P-040	Evaluation of the <i>in vitro</i> effect of plant extracts of <i>Ruta graveolens</i> and <i>Euphorbia serpyllifolia</i> on <i>Trypanosoma cruzi</i> strains NINOA and INC-5.	María L. Hernández	Mexico
SPN-P-041	Nutraceutical quality components of microencapsulated noni juice (<i>Morinda citrifolia</i> L.) by spray drying.	Joel Corrales García	Mexico
SPN-P-042	Phytochemical content of noni juice (<i>Morinda citrifolia</i>) microencapsulated in W/O/W emulsions.	Carmen María Rodríguez	Mexico
SPN-P-043	Antifungal activity of the root of <i>Adenophyllum aurantium</i> (L.) Strother.	Mónica Alicia Calderón	Mexico
SPN-P-044	Characterization of policosanol from wax cochineal.	Alma Leticia Martínez	Mexico
SPN-P-045	Use of <i>Citrus lemon</i> L. (lemon) in the treatment of rises of arterial pressure	Marcia A. Avello	Chile

Poster No	Title	Main Author	Country
SPN-P-046	Evaluation of the hypoglycemic effect of <i>Bauhinia forficata</i> in patients with poorly controlled diabetes.	Pía Córdova Mariángel	Chile
SPN-P-047	<i>In vitro</i> Anthelmintic Efficacy of <i>Aloe ferox</i> , <i>Agave sisalana</i> and <i>Gunnera perpensa</i> Against <i>Heterakis gallinarum</i> .	Mari Wale Manjoro	South Africa
SPN-P-048	Immune modulatory effect of Korean native chicken meat.	Leem Kang Hyun	South Korea
SPN-P-049	Concentrations of Se as an essential metal in human milk of venezolan women.	Andrea María Angulo	Venezuela
SPN-P-050	Chemical composition of <i>Salvia aratocensis</i> extract obtained by supercritical fluid extraction and its antigenotoxicity against ultraviolet radiation-induced DNA damage.	Jorge Luis Fuentes	Colombia
SPN-P-051	<i>Lippia origanoides</i> extract obtained by supercritical fluid extraction and its major constituent pinocembrin diminish ultraviolet radiation-induced DNA damage and modulate cell division in <i>Escherichia coli</i> .	Jorge Luis Fuentes	Colombia
SPN-P-052	Chemical composition of essential oil and extract obtained by supercritical fluid extraction from <i>Turnera diffusa</i> and its antigenotoxicity against UVR-induced DNA damage.	Jorge Luis Fuentes	Colombia
SPN-P-053	The seed of oleaginous extract of <i>Carapa guianensis</i> aublet a potent antioxidant does not damage the DNA in experila models.	Daniel F. Arencibia	Cuba
SPN-P-054	Assessment of antioxidant effect of seed oleaginous extract <i>Carapa guioanensis</i> aublet using in vivo models.	Dayisell L. Curveco	Cuba
SPN-P-055	Pharmacognostical study of <i>Schinus terenbinthifolius</i> Raddi (false copal).	Clara Águila Tkalenko	Cuba
SPN-P-056	Extraction of flavonoids from leaves of <i>Annona muricata L.</i>	Yaima Henry García	Cuba
SPN-P-057	Study in silico of the DNA protective effects of the 2, 6 -disecbutilphenol extracted from the plant <i>Phyllanthus orbicularis K.</i>	Lázaro Andrés Castanedo	Cuba
SPN-P-058	<i>Malpighia glaba L.</i> (Acerola): analytical studies.	Caridad M. García Peña	Cuba
SPN-P-059	Effect of dietary supplementation with sanguinarine on biological indicators in growing.	Yordan Matínez	Cuba

Poster No	Title	Main Author	Country
SPN-P-060	Development and validation of a high performance liquid chromatographic method to the quantitation of phytosterols in <i>Portulaca oleracea L.</i>	Miguel Ángel Alba de Armas	Cuba
SPN-P-061	Toxicity studies of <i>Curcuma longa</i> extracts.	Neisa Quintana	Cuba
SPN-P-062	Functional Characterization of an antifungal peptide from marine invertebrate <i>Cenchritis muricatus</i> (Gastropoda: Littorinidae).	María Bárbara Lugo	Cuba
SPN-P-063	Applications of essential oil clove as fungicide on environments of archives and libraries.	Oderlaise Valdés	Cuba
SPN-P-064	Hypocholesterolemic and antiatherosclerotic effects of crude leaf extract of <i>Moringa oleifera</i> in Apoe Ko Mice.	Nidia Fernández	Cuba
SPN-P-065	Effect of Korean native chicken meat on pro-inflammatory cytokine gene expression	Hye Kyung Kim	Korea
SPN-P-066	Evaluation of the use of fibre dietary in ice cream.	Aniely M'Boumba	Cuba
SPN-P-067	Development of fermented milks from buffalo's semiskimmilk and culture of <i>Lactobacillus acidophilus</i> .	Aniely M'Boumba	Cuba
SPN-P-068	Soy ice cream for diabetics.	Yanires Castro	Cuba
SPN-P-069	Use of cheese whey in ice cream.	Yanires Castro	Cuba
SPN-P-070	Potentialities of leaves from <i>Clusia minor</i> L. species.	Guillermo Boffill	Cuba
SPN-P-071	<i>Meleagris gallopavo-tio2</i> composites for biomedical applications	Ayhan ONAT	Turkey
SPN-P-072	Almonds consumption to reduce cholesterol and increase human health	Jesús G. Rodríguez	Mexico
SPN-P-073	Enzymatic hydrolysis of whole bovine plasma protein: optimization and enzyme activity of peptide fractions obtained by ultrafiltration	Omar A. Figueroa	Colombia
SPN-P-074	Probiotic fermented milk with prebiotic syrup.	Oxalis Rodríguez	Cuba
SPN-P-075	Mangiferin solubility in different solvents used in the pharmaceutical industry	Iliana Sevilla Fernández	Cuba
SPN-P-076	Assessment of genotoxic and cytotoxic effects of Phyllanthus plants aqueous extracts in <i>Caulobacter crescentus</i> .	Ivette M. Menéndez Perdomo	Cuba

Oral Presentations

Session 4

Room:

3

Chairman: Dr. Miriam Noa Puig (Cuba)
Secretary: MSc. Maikel Valle Clara (Cuba)

Time	Title	Speaker	Country
08:30-09:30	Analysing complexity: natural products from organism to application (Master Lecture). SPN-L-003.	Ludger Wessjohann	Germany
09:30-09:45	Antiinflammatory effects of Abexol (D-002). SPN-O-014.	Vivian Molina	Cuba
09:45-10:00	Gastrotoxic and gastroprotector effects of Abexol (D-002). SPN-O-015.	Vivian Molina	Cuba
10:00-10:15	Effects of Abexol (D -002) on esophagitis induced by gastroesophageal reflux in rats. SPN-O-016.	Zullyt Zamora	Cuba
10:15-10:30	Effects of Abexol (D -002) on esophagitis induced by duodeno-gastroesophageal reflux in rats. SPN-O-017.	Zullyt Zamora	Cuba
10:30-10:50	Effects of Abexol in patient with osteoarthritis. SPN-O-018.	José Illnait	Cuba
10:50-11:10	Carcinogenicity of D-004. SPN-O-019.	Ariadne Gutiérrez	Cuba
11:10-11:30	Effects of D-004 in patient with benign prostatic hyperplasia. SPN-O-020.	Raúl Guzman	Cuba
11:30-11:45	Phytochemical analysis and wogonin isolation from <i>Scutellaria havanensis</i> Jacq. SPN-O-021.	David Marrero	Cuba
11:45-12:00	Natural products from Palauan Traditional Medicine increase insulin levels and reduce blood sugar. SPN-O-022.	Christofer Kitalong	Palau
12:00-12:15	The antiinflamatory activity of <i>Artemisia afra</i> . SPN-O-023.	Edmund Pool	South Africa
12:15-12:30	Cuban Medicinal Plants Journal. Present times and Perspectives. SPN-O-024.	Ioanna Martínez	Cuba
12:30	Lunch		

Oral Presentations

Session 5

Room:

3

Chairman: Dr. José Illnait Ferrer (Cuba)
Secretary: Dr. Lilia Fernández Dorta (Cuba)

Time	Title	Speaker	Country
14:00-15:00	Medicinal plants of the brazilian <i>Caatinga biome</i> : from popular use to scientific studies (Master Lecture). SPN-L-004.	Jackson Roberto Guedes da Silva	Brazil
15:00-15:30	Vegetal biotechnology in heterolog proteins production to prevent and treat diseases. SPN-O-025.	Graciano Calva	Mexico
15:30-16:00	Isolation and characterization of antiretroviral proteins from <i>Curcuma Longa L.</i> extracts. Results od three multicentric clinical trials in patients with HIV and Hepatitis B and C. SPN-O-026	Juan García Martín	Estados Unidos
16:00-16:20	Potentialities of the use of lipdic extract from Cuban Royal palm fruits in China population. SPN-O-027.	Li Hongying	Canada
16:20-16:40	<i>In vitro</i> antihelminthic activity of <i>Mucuna pruriens</i> (DC) and <i>Canarium shweinfurthii</i> (engl) on <i>Acaris suum</i> . SPN-O-028.	Habila JD	Nigeria
16:40-17:00	Establishment of septic culture of <i>Adenophyllum aurantium</i> . SPN-O-029.	Ana Claudia Sánchez	Mexico
17:00-17:30	Round Table: 25 years validation of the medicinal plants use. SPN-O-030	Abel Duménigo González	Cuba

Oral Presentations

Session 1: Environment and Development

Room:

Chairman: Dr. Mara Murillo (PNUMA)

4

Secretary: Dr. Mayra Bataller Venta (Cuba)

Time	Title	Speaker	Country
9:00-9:05	Symposium Welcome	Mayra Bataller	Cuba
9:05-9:35	Sustainable and equitable development: Challenge of the 21 century. SMA-L-001.	Mayra Bataller	Cuba
9:35-10:15	Administrative control as a tool for pollution control in Cuba. SMA-L-002	Jorge Alvarez	Cuba
10:15-10:25	BioCubaFarma environmental strategy SMA-L-003	María del Pilar Margolles	Cuba
10:25-10:35	Discussion and comments		
10:35-10:45	Conservation of the flora at the thematic park Takilhsukut: Center of the indigenous arts, Papantla Veracruz, Mexico SMA-O-001	José Luis Alanís Méndez	Mexico
10:45-10:55	A decade of studies on the pollution with toxic and hazardous substances in Almendares River, Havana, Cuba. SMA-O-002	Susana Olivares Rieumont	Cuba
10:55-11:05	Multiresistance to antibiotics and metals in bacteria isolated of environments contaminated with metals. SMA-O-003	Oiris Veranes	Cuba
11:05-11:15	Assement of chemical and microbiological quality in Cuban western freshwater ecosystems. SMA-O-004	Beatriz Romeu Alvarez	Cuba
11:15-11:25	Bioaccumulation of Hg, Pb, Cd and Zn in <i>Pomacea flagellata</i> (Say, 1827) at Bacalar's Lagoon, Quintana Roo. Mexico. SMA-O-005	Jose Luis González Bucio	Mexico
11:25-11:35	Discussion and comments		
11:35-11:45	Pollution prevention: implementing sanitary landfill systems through public policy. SMA-O-006	Agustín Moreno	P. Rico
11:45-11:55	Diagnosis and evaluation of a solid waste management system from a University. SMA-O-007	Lourdes Y. González Sáez	Cuba
11:55-12:05	Use of lichens as bioindicators in the presence of heavy metals at a zone of environmental mining liabilities in abandon. SMA-O-008	Gladys Ocharán Velásquez	Peru

Time	Title	Speaker	Country	
12:05-12:15	Environmental health consequences of potentially harmful element releases from active and abandoned mines into the surrounding ecosystems in Nigeria. SMA-O-009	Uriah Alexander Lar	Niger	
12:15-12:25	Research network and environmental monitoring. SMA-O-010.	Erick Lenarduzzi	Venezuela	
12:25-12:35	Total content of arsenic and mercury in sediments of the bay of Matanzas. SMA-O-011.	Odalys Quevedo	Cuba	
12:35-12:45	Discussion and comments			
12:45	Lunch			

Oral Presentations

Session 2: Environmental Education, Renewable Energy and Hazardous Wastes.

Room:

4

Chairman: Dr. Lidia Asela Fernández García (Cuba)

Secretary: Dr. José Luis Alanís Méndez (Mexico)

Time	Title	Speaker	Country
14:00-14:30	Eco-planned obsolescence to meet human needs while enhancing environmental protection. SMA-L-004.	Robert Hausler	Canada
14:30-14:40	Discussion and comments		
14:40-14:50	Strategic assessment of environmental practices of nopal producers in Mexico, Milpa Alta Delegation. SMA-O-012	Maria Luisa Flores Ramirez	Mexico
14:50-15:00	Impacts of the master degree program in quality and environmental management in education and organizational innovation for the sustainable development. SMA-O-013	Rosa Mayelín Guerra Bretaña	Cuba
15:00-15:10	Educational theory used with more frequency by the teachers of the cathedra of environmental education at the Pedagogic Experimental University Libertador- Pedagogical Institute of Caracas. SMA-O-014	Marjorie Moreno	Venezuela
15:10-15:20	Discussion and comments		
15:20-15:30	Use of liquid and solid wastes and natural products to purify combustible gases: Cuban methods. SMA-O-015	Elina Fernández Santana	Cuba

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Time	Title	Speaker	Country
15:30-15:40	Thermal hydrolysis and energy integration in the anaerobic digestion process of sugar cane press mud. SMA-O-016	Lisbet Mailin López González	Cuba
15:40-15:50	Biomethane production in UASB thermophilic reactors, in two stages, with vinasse and melasse. SMA-O-017	Aureo Santana	Brazil
15:50-16:00	Energetic use of the biogas from the wastes of Aceite's Refining Company "ERASOL", Santiago de Cuba. SMA-O-018	Daniel Dinza Tejera	Cuba
16:00-16:10	Discussion and comments		
16:10-16:20	New products and energy valorization of food industry residues using thermal-chemical conversion. SMA-O-019	Cosmin Marculescu	Romania
16:20-16:30	Biogas production from industrial residues blend: optimization using mixture design. SMA-O-020	Lisbet Mailin López González	Cuba
16:30-16:40	Biogas and electric power production from distillery vinasse. Operational and economical calculations for an industrial plant. SMA-O-021	Yarelys Herrera Díaz	Cuba
16:40-16:50	Discussion and comments		
16:50-17:00	Cuban project for containment of hazardous wastes. SMA-O-022	Yohandro Morón González	Cuba
17:00-17:10	Safe management of chemical toxic wastes containing vanadium pentoxide. SMA-O-023	Milaidi Pérez Carballo	Cuba
17:10-17:20	Containment of hazardous wastes in Cuba: tetraethyl lead. SMA-O-024	Elizabeth Villavicencio R.	Cuba
17:20-17:30	Discussion and comments		

Oral Presentations

Session 3: Water, Wastewater and Solid Waste Treatments Room:

Chairman: Dr. Oscar Monroy Hermosillo (Mexico)

Secretary: Dr. Matilde López Torres (Cuba)

4

Time	Title	Speaker	Country
08:30-09:25	Nitrogen fixing bacteria in the bioremediation of organic pollutants. SMA-L-005	Josefina Pérez Vargas	Mexico
09:25-09:30	Discussion and comments		
09:30-09:40	Citostatics presence in wastewaters and their degradation through ozonation. A review of Cuban experiences. SMA-O-025	Lidia Asela Fernández	Cuba
09:40-09:50	Treatment technology for the wastewaters of a Hospital Complex. SMA-O-026	Alexis Pellon	Cuba
09:50-10:00	Bioreactors with submerged membranes in the treatment of wastewaters from hospitals. SMA-O-027	Ulises Jáuregui-Haza	Cuba
10:00-10:10	High frequency ultrasound in the remediation of water with antibiotics: degradation of ciprofloxacin. SMA-O-028	Diana Rosa Alcorta Cuello	Cuba
10:10-10:20	Discussion and comments		
10:20-10:30	Effect of organic loading rate on the performance of two-stages anaerobic digestion of organic fraction of municipal solid waste. SMA-O-029	Oscar Monroy	Mexico
10:30-10:40	Anaerobic treatment of a high strength and sulfate-rich vinasse: sulfate-reducing bacteria vs methane producing archaea. SMA-O-030	Janet Jiménez	Cuba
10:40-10:50	Thermolitico process for oily sludges. SMA-O-031	Manuel Pérez Nafarrate	Mexico
10:50-11:00	Extraction of nitrogen bases from tannery "Sebadero", for reuse as fertilizers. SMA-O-032	Natividad Ramírez Ramírez	Mexico
11:00-11:10	Discussion and comments		
11:10-11:20	Wastewater treatment plant to reuse in agricultural irrigation. SMA-O-033	Eliet Veliz	Cuba
11:20-11:30	Fluoride removal from drinking water using activated alumina and activated charcoal. SMA-O-034	Adrián Zamorategui Molina	Mexico

Time	Title	Speaker	Country
11:30-11:40	A study of the removal of Manganese (II) from aqueous systems using the <i>Moringa oleifera</i> pods as bioadsorbent. SMA-O-035	Mirla Rodríguez	Venezuela
11:40-11:50	Rizobacteria and its application in artificial wetlands, proposal for wastewater management. SMA-O-036	Irina Salgado Bernal	Cuba
11:50-12:00	Discussion and comments		
12:00-12:10	Treatment of polyethylene terephthalate with fungi endemic strains from Mexico. SMA-O-037	Alma Hortensia Serafin Muñoz	Mexico
12:10-12:20	Degradation of industrial dyes with white rotting fungi as of treatment alternative for effluents of the textile industry. SMA-O-038	Astrid Stefanía Duarte Trujillo	Colombia
12:20-12:30	Mucilage extraction process, as nopal by-product, in Mexico city. SMA-O-039	Silvia Galicia	Mexico
12:30-12:40	Phylogenetic analysis of foodborne aspergillus and penicillium species with its, lsu and ssu genes. SMA-O-040	Rasime Demirel	Turkey
12:40-12:50	Discussion and comments		
12:50	Lunch		

Posters

Session 4

Room:

12

Chairman: Dr. Wilfredo Irrazabal Urruchi (Brazil)

Secretary: Dr. Abel Castañeda Valdés (Cuba)

Time: 14:30-17:00

Poster No.	Title	Main Author	Country
SMA-P-001	Environmental attitudes of producers of cactus in Milpa Alta, Mexico City	Hugo Serna Álvarez	Mexico
SMA-P-002	Poverty, migration and aging. Three significative factors for sociocultural and environmental development in Guama municipality, Santiago de Cuba.	Mara Castillo	Cuba
SMA-P-003	Agroecological planning in corn production.	Adriana Sánchez Trujano	Mexico
SMA-P-004	Decrease of agrochemicals use in Xochimilco, Mexico City, through a communicative diagnosis.	Jessica J. Bolaños Alvarez	Mexico

Poster No.	Title	Main Author	Country
SMA-P-005	Toxicity study in the waters and sediments of the mangrove area of the hotel iberostar Varadero Matanzas on Kellogg franciscan artemia (<i>Crustacea anostraca</i>).	Jeisel Muñiz Padrón	Cuba
SMA-P-006	Conservation of endangered fauna in Tamaulipas.	Jesús Elías Ibarra	Mexico
SMA-P-007	Native trees project: Environmental recovery with social development	Marcelo Nascimento Bernál	Brazil
SMA-P-008	Antibiotics presence in natural and waste waters: oxitetracycline in Almendares river.	Mónica Muñoz	Cuba
SMA-P-009	Influence of chemical and microbiological pollutants on the composition of bacterial communities of Almendares river, Havana, Cuba.	Jeny A. Larrea Murrell	Cuba
SMA-P-010	Extracellular enzymes producing bacteria from Almendares River with ecological importance.	Ivette García Soto	Cuba
SMA-P-011	Control of the contaminating sources: Obtaining the disposal permission of wastewaters in CIGB.	Rebeca Vizcaíno Zaballa	Cuba
SMA-P-012	Procedure for integral management of hazardous wastes.	Regina Reyes López	Cuba
SMA-P-013	Proposal of solutions to increase the efficient use of the cattle by-products on the basis of the principles of cleaner production.	Regina Reyes López	Cuba
SMA-P-014	Technologies related to cheese whey processing as an alternative method to be used for environment preservation.	Tamara Santana Hermida	Cuba
SMA-P-015	Developments of a protein concentrate with bovine by-products.	Jennis Pérez Touzón	Cuba
SMA-P-016	Effects of Potassium Nitrate, used as a chemical fertilizer, on the Catalase (CAT) and Glutathione S-transferase (GST) enzyme activity in <i>Lumbricus terrestris</i> (Lamarck, 1809) (Annelida: Lumbricidae).	Filiz Susuz Alanyali	Turkey
SMA-P-017	Use of Wi-Fi technology to improve assessment systems of natural disasters.	Ránolph Delgado	Cuba
SMA-P-018	Ozonation and avanced oxidation of Caffeine in aqueous dissolution.	Daylin Hernández	Cuba
SMA-P-019	Ozonation and avanced oxidation of Dopamine in aqueous dissolution.	Daylin Hernández	Cuba

Poster No.	Title	Main Author	Country
SMA-P-020	Analysis of biological degradation of Diclofenac using respirometry.	Laura Pramparo	Colombia
SMA-P-021	Perspectives of the use of carbon nanomaterials for water treatment: paracetamol absorption and degradation with ultrasound and gamma radiation.	Asiel Hernández Martínez	Cuba
SMA-P-022	Ultrasonic-assisted acid and alkali pretreatments to enhance the enzymatic hydrolysis of lignocellulosic residues.	Emir Cabrera	Cuba
SMA-P-023	Ozonation of vinasses treated by anaerobic digestion.	Jaime Dueñas Moreno	Cuba
SMA-P-024	Treatment of wastewater from a production plant of soft caplets.	Dayana Gil	Cuba
SMA-P-025	Physical composition and generation assessment of municipal solid wastes from Havana.	Ma. del Carmen Espinosa	Cuba
SMA-P-026	Procedure for the monitoring of a solid waste final disposition landfill.	Susana Díaz Aguirre	Cuba
SMA-P-027	Characterization of anaerobic sludge through specific methanogenic activity methods.	Matilde Lopez	Cuba
SMA-P-028	Adsorbent material elaborated from the gasification of marabú wood (<i>Dichrostachys Cinerea</i>): its use in "aguardiente" filtration and methylene blue adsorption.	Lourdes Y. González	Cuba
SMA-P-029	Kinetic study of the removal of methylene blue from aqueous solution using a natural and modified cuban clay.	María Isabel Garrudo Guirado	Cuba
SMA-P-030	Biodegradation and detoxification of dyes present in textile effluents by white-rot fungus <i>Ganoderma weberianum</i> .	Ana M. Manzano	Cuba
SMA-P-031	Hydrocarbon biodegradation of sludge from automotive centers with BFNA.	Josefina Perez Vargas	Mexico
SMA-P-032	Microbial degradation with BFNA of aromatic hydrocarbon by bioaugmentation in biopiles.	Josefina Perez Vargas	Mexico
SMA-P-033	Profile of fatty acids and flavonoids of <i>Cyperus laxus</i> growth in vitro culture with phenanthrene.	Noemí Araceli Rivera Casado	Mexico

Poster No	Title	Main Author	Country
SMA-P-034	Effect of the presence of hydrocarbons over the phenolic profile and the morphology of leaf of <i>Cyperus laxus</i> plants grown aseptically in <i>in vitro</i> cultures.	Sarahí Itzel Morales Navarro	Mexico
SMA-P-035	Isolation and screening of Cuban ganoderma strains. Application for biodegradation of xenobiotic compounds	Giselle Torres Farrada	Cuba
SMA-P-036	Application of a bacterial surfactant for washing of soil contaminated with hydrocarbons.	Odalys Rodríguez Gámez	Cuba
SMA-P-037	Physiochemical and microbiological characterization of wastewaters in the students' residences at Universidad de Oriente.	Sandra Crombet Grillet	Cuba
SMA-P-038	Efficacy indicators: fundamental element in a Quality Management System.	Yadiana León	Cuba
SMA-P-039	Procedure of measuring, analysis and improvement for management integrated systems of BioCubaFarma enterprises.	Marlen Robert	Cuba
SMA-P-040	Glassware internal coding as part of laboratory management system to guarantee measurement traceability.	Marlenys Agramonte	Cuba
SMA-P-041	Little eco-citizens. Earth voices.	Claudia Andreis	Argentina
SMA-P-042	Recent changes in sediment sources in a catchment in the Eastern Cape, South Africa	Munyaradzi Manjoro	South Africa
SMA-P-043	Effect of natural mineral addition on biogas production using corn straw.	Aimeé González Suárez	Cuba
SMA-P-044	An ecological fertilizer for a sustainable agriculture. Practical results on the environment	Carmen Rodríguez Acosta	Cuba
SMA-P-045	Environmental impact of the iberostar hotel on the ecological zone of mangrove and Matanzas bay in Varadero	Consuelo González Triana	Cuba
SMA-P-046	A responsible environmental management is a reason for the treatment of wastes.	Maylen Yera López	Cuba
SMA-P-047	The improvement of environmental managers in Cuban enterprises	Lisbet Xuárez Marill	Cuba

Poster No	Title	Main Author	Country
SMA-P-048	Sociocultural animation project for environmental education in the formation of physical cultural profesional.	Maribel Pérez Campaña	Cuba
SMA-P-049	Methodology for handling hazardous wastes generated in the Laboratory of the Scientific Research Center of Civil Defense	Maelys Hernández Almaguer	Cuba
SMA-P-050	Oil improved recuperation with microorganisms: An environmental-friendly alternative.	Thais Hernández Gómez	Cuba
SMA-P-051	Inhibition of galvanic corrosion of copper- steel couple during acid cleanings.	Alexander Cueli	Cuba
SMA-P-052	Corrosion products of api 5lx-52 steel in saline medium polluted with carbon dioxide and hydrogen sulphide.	Yosmari Adamés	Cuba
SMA-P-053	A lattice dynamics study of zk-4 microporous material under high temperature and high pressure conditions	Jorge Gulín	Cuba
SMA-P-054	Environmental microbiological quality in the National Music Museum during dry and rainy seasons, 2014.	Julio Cesar Rodríguez	Cuba
SMA-P-055	Microbial quality of indoor air in the National Archive of Cuba on the documentary heritage conservation and the human health.	Sofia Borrego	Cuba
SMA-P-056	Impact of environmental mycobiota in three heritage institutions on the biodeterioration of materials and health.	Alian Molina	Cuba
SMA-P-057	Characterization of dust accumulated on the repositories of the National Archive of the Republic of Cuba.	Isbel Vivar	Cuba
SMA-P-058	Atmospheric corrosion study in a strategic zone of Cuba.	Abel Castañeda	Cuba
SMA-P-059	Enhancing the corrosion resistance and biocompatibility of injection molded 316L stainless steel for bio-applications	H. Ozkan Gulsoy	Turkey
SMA-P-060	The fumes of bagasse chimneys.	Edgardo D. Cabanillas	Argentina
SMA-P-061	Study of micro structural, structural, mechanical, and vibrational properties of deffated trabecular bovine bones: natural sponges.	M. E. Rodríguez-García	Mexico
SMA-P-062	Effect of the heating and cooling rates on physicochemical properties of Bio-Hap.	Sandra Milena Londoño-Restrepo	Mexico
SMA-P-063	Insect's functional food to decrease malnutrition of population	Jesús Rodríguez	Mexico

Poster No	Title	Main Author	Country
SMA-P-064	Use of glassy membranes to reduce hydrogen sulphide present in the biogas	Lianys Ortega Viera	Cuba
SMA-P-065	Physico-chemical characterization of glassy membranes used to treat industrial wastewater.	Susana Rodríguez Muñoz	Cuba
SMA-P-066	Use of seeds of Moringa oleifera in sewage treatment	Maylín Rondón Macias	Cuba
SMA-P-067	Optimal ozonation process of stored grain	Guadalupe Llanes	Mexico
SMA-P-068	Phenotypic characterization of bacterial collection isolated from lateritic deposit, Moa, Cuba.	Alexander Govin Sanjudo	Cuba
SMA-P-069	Nanoindentation: a tool to predict composite polymers degradation.	Laurence Romana	Guadalupe
SMA-P-070	System for operation of simple dam reservoir	Niubis Ortega	Cuba
SMA-P-071	Ozone application to sludge generated in advanced primary treatment of municipal wastewater	Anisley Amador	Cuba
SMA-P-072	Management of hazardous wastes and obsolete chemical products.	Ismark González	Cuba

Oral Presentations**Room:****Session 5: Corrosion and Materials Protection****4****Chairman: Dr. Gibson Rocha Meira (Brazil)****Secretary: Dr. Francisco Corvo Pérez (Cuba)**

Time	Title	Speaker	Country
8:30-9:00	Behaviour of Marine Aerosol Salinity Inland – Relationship with Reinforced Concrete Structures and Use of Chloride Deposition Rate on Wet Candle as an Environmental Indicator. SMA-L-006	Gibson Rocha Meira	Brazil
9:00- 9:20	Atmospheric corrosion sensors. Experiences and perspectives. SMA-L-007	Francisco Corvo	Cuba
9:20-9:40	Use of ONDULIT multilayer products for corrosion protection and in favor of the environment. SMA-L-008	Antonino Federico	Italy
9:40-9:50	Discussion and comments		
9:50-10:00	Study of deterioration of specimens of reinforced concrete exposed at 300 m to coastline in Campeche, Mexico. SMA-O-041	Francisco Corvo	Cuba
10:00-10:10	Marine aerosol penetration in tropical coastal climate in Havana. SMA-O-042	Abel Castañeda	Cuba
10:10-10:20	Magnetic field effect on Copper corrosion in absence of Lorent Forces. SMA-O-043	Esteban García Ochoa	Mexico
10:20-10:30	Study on atmospheric corrosion en the seaport of Mariel. SMA-O-044	Dayneris Fernández	Cuba
10:30-10:40	Discussion and comments		
10:40-10:50	Technical and economic evaluation of coating systems applied on reinforced concrete in pools used for salt brines storage. SMA-O-045	Rigoberto Marrero Águila	Cuba
10:50-11:00	Antique structures deterioration in Old Havana: study case. SMA-O-046	Cecilia Valdes Clemente	Cuba
11:00-11:20	An additives system developed for mechanical projection of Cuban gypsum. SMA-O-047	Raul Montejano	Cuba
11:20-11:30	Low carbon cement: durability performance assessment with laboratory and site tests. Standardization in Cuban construction norms. SMA-O-048	Dayran Rocha	Cuba
11:30-11:40	Discussion and comments		

Time	Title	Speaker	Country
11:40-11:50	Effects of activation temperature on the NH ₃ adsorption in a natural Cuban mordenite. SMA-O-049	Miguel A. Autié	Cuba
11:50-12:00	Effect of sintering on <i>Meleagris Gallapova</i> -Titanium Oxide composites. SMA-O-050	Serdar Salman	Turkey
12:00-12:10	Effect of wood flour on the properties of PP/HIPS wood plastic composites. SMA-O-051	Münir Tasdemir	Turkey
12:10-12:20	Discussion and comments		
12:20-12:30	Closure words		

Oral Presentations

Session 1

Room:

5

Chairman: Dr. Rafael Fando Calzada (Cuba)
Secretary: Dr. Talena Ledón Pérez (Cuba)

Time	Title	Speaker	Country
08:30-08:40	Opening remarks		
08:40-09:10	Antimicrobial peptides: A promising alternative for anti-infective therapeutics. EIN-L-001.	Anselmo Otero	Cuba
09:10-09:40	The nucleolus and nucleologenesis of unicellular parasites. EIN-L-002.	Luis Felipe Jiménez García	Mexico
09:40-09:50	Discussion and Comments		
09:50-10:10	Serotype prevalence of group B <i>streptococci</i> (GBS) in a cohort of pregnant women with aerobic vaginitis in South Africa. EIN- O-001.	Charlene Africa	South Africa
10:10-10:30	Urinary tract infections for mycobacterium. EIN- O-002.	Lilian María Mederos Cuervo	Cuba
10:30-10:50	Virological and serological characterization of a dengue outbreak in the province Camagüey, Cuba. EIN-O-003.	Mayling Alvarez Vera	Cuba
10:50-11:10	PHB-01 purification using a combination of methodologies liquid-liquid extraction and affinity chromatography. EIN-O-004.	Williams Ferro	Cuba
11:10-11:30	Cloning and expression of gene l1 of the Human papilloma virus type 16. EIN-O-005.	Yunier Serrano Rivero	Cuba
11:30-11:50	Bacterial Expression of Human Papillomavirus Type 18 L1. EIN-O-006.	Elsa Pimienta Rodríguez	Cuba
11:50-12:30	Discussion and Comments		
12:30-14:00	Lunch		

Oral Presentations

Session 2

Room:

5

Chairman: Dr. Rafael Fando Calzada (Cuba)
Secretary: Dr. Talena Ledón Pérez (Cuba)

Time	Title	Speaker	Country
14:00-14:20	Characterization of three vaccine strains of <i>Leptospira interrogans</i> by mini-transversal alternating field electrophoresis. EIN-O-007.	Fidel Corrales Ferro	Cuba
14:20-14:40	Myocarditis Trypanosoma cruzi: a retrospective study of 10 years. EIN-O-008.	Sebastián León Zetina	Mexico
14:40-15:00	Zoonotic potencial of intestinal flagellates from <i>Saimiri sciureus</i> : histopathological and ultrastructural postmortem findings. EIN-O-009.	Isaac Martínez-Racine	Mexico
15:00-15:20	Development of an anti-IL-15 vaccine. EIN-O-010.	Yunier Rodriguez	Cuba
15:20-15:40	Integrating the patients' perspective in chronic disease care: Experience from Turkey. EIN-O-011.	Belgin Unal	Turkey
15:40-16:00	Discussion and Comments		
16:00-16:15	Coffee break		
16:15-16:35	Purification of pneumococcal surface protein A (clades 1 and 3) and its conjugation to the pneumococcal capsular polysaccharide serotype 6B. EIN-O-012.	Lazara Elena Santiesteban Lores	Brazil
16:35-16:55	In vitro study of anti-tuberculosis activity of plant extracts of the Peruvian Amazon. EIN-O-013.	Gonzalo A. Gabriel	Peru
16:55-17:15	Differences and similarities related to missed opportunities for vaccination in three locations in the city of Bogota. EIN-O-014.	Jaime Alberto Méndez Castillo	Colombia
17:15-17:30	Discussion and Comments		

Oral Presentations

Session 3

Room:

5

Chairman: Dr. Elsa T. Pimienta Rodríguez (Cuba)

Secretary: Dr. Karen Marrero Domínguez (Cuba)

Time	Title	Speaker	Country
08:30-09:00	Cuban <i>Cholerae</i> vaccine: challenges and perspectives. EIN-L-003.	Rafael Fando Calzada	Cuba
09:00-09:30	Intraparasitic Prokaryotic Endosymbionts and the Changing Paradigms of Parasitic Infections. EIN-L-004.	Wieslaw J Kozek Bialorucki	Puerto Rico
09:30-09:50	Scanning and Transmission electron microscopy of <i>Haemonchus contortus</i> exposed to tannin-rich materials in goats. EIN-O-015.	Cintli Martínez Ortiz de Montellano	Mexico
09:50-10:10	Discussion and Comments		

Posters

Session 4

Room:

12

Chairman: Dr. Elsa T. Pimienta Rodríguez (Cuba)

Secretary: Dr. Karen Marrero Domínguez (Cuba)

Time: 10:10-12:30

Poster No	Title	Speaker	Country
EIN-P-001	Purification of the protective components of <i>Bordetella pertussis</i> , using Fractogel media	Alina Falero	Cuba
EIN-P-002	In vitro study of the environmental performance of attenuated strains of <i>vibrio cholerae</i> O139	Talena Ledón	Cuba
EIN-P-003	Excretion of the vaccine strain Vibrio cholerae 638 in the feces of Cuban pediatric subjects	Talena Ledón	Cuba
EIN-P-004	New methodologies employed in obtaining hybrid systems heterocycle-steroid	Danay González Acevedo	Cuba

IV Symposium on Infectious Diseases and Vaccines

Thursday 25th

Poster No	Title	Speaker	Country
EIN-P-005	Effect of extraction time in the purified pertactin from <i>Bordetella pertussis</i>	Susana Brito	Cuba
EIN-P-006	Immunogenicity and immunomodulatory capacity of different adjuvants in experimental vaccines with <i>Blomia tropicalis</i> allergens	Yaneysis Lamothe	Cuba
EIN-P-007	Development of a PCR assay to detect cholera toxin genes in preparations of the living vaccine candidate attenuated CV638	Heidy Peidro Guzmán	Cuba
EIN-P-008	Evaluation of culture medium and pH variables in the fermenter culture vaccine candidate for <i>Vibrio cholerae</i> VC638	Orlando Reyes	Cuba
EIN-P-009	Antimicrobial susceptibility of attenuated vaccine strains of <i>Vibrio cholerae</i>	Angela Mariana Zayas	Cuba
EIN-P-010	ArcA and Fnr function in the virulence of <i>Vibrio cholerae</i> El Tor	Karen Marrero	Cuba
EIN-P-011	Stability test of two batches of VC638 at 5°C and 25°C as part of the process of obtaining technological development of a vaccine against <i>Vibrio cholerae</i>	Rosa Alina La O	Cuba
EIN-P-012	Enhancement of the nutritional quality of flour foliage <i>Stizolobium niveum</i> (Mucuna) using solid state fermentation with the fungus <i>Trichoderma viride</i> M5-2	Heilyn Pérez Soler	Cuba
EIN-P-013	PCR Optimization to amplify the <i>egl</i> gene from <i>Ralstonia solanacearum</i>	Adriana Otero	Cuba
EIN-P-014	Obtaining strains of <i>Bordetella pertussis</i> high producer of the S1-9K / 129G variant from pertussis toxin genetically attenuated	Lourdes L. Proenza	Cuba
EIN-P-015	Combined treatment with Growth Hormone-Releasing Peptide-6 and Epidermal Growth Factor counteracts aminoglycoside-induced ototoxicity and nephrotoxicity	Sandra Rodríguez	Cuba
EIN-P-016	Insight of immune camouflage of the Human Papillomavirus types 16, 18, 31, 33 and 35: first steps for a final large-scale immunomic analysis, "the war go on"	Jorge Félix Beltrán	Cuba
EIN-P-017	Environmental performance of vaccine strain <i>Vibrio cholerae</i> 638: in vitro modeling	Gardenia Payne	Cuba

Time: 10:30-12:30

Poster No	Title	Speaker	Country
EIN-P-018	How to quantify penile corpus cavernosum structures with histomorphometry: comparison of two methods	Diogo Benchimol De Souza	Brazil
EIN-P-019	<i>Escherichia coli</i> diagnosis made in Huambo General Hospital	Josefa Marlene Chindembele	Angola
EIN-P-020	Sensitivity and Resistance of <i>Escherichia coli</i>	Josefa Marlene Chindembele	Angola
EIN-P-021	Diagnosis of toxoplasmosis in squirrel monkeys (<i>Saimiri sciureus</i>) in captivity in Cuernavaca, Morelos, Mexico.	Adriana Méndez Bernal	Mexico
EIN-P-022	Detection of a protein of <i>Leptospira borgpetersenii</i> with Immunogold and Immunohistochemistry	Elena Alcaraz Sosa Luz	Mexico
EIN-P-023	Expression of the L1 protein of the HPV in <i>Escherichia coli</i> and hairy roots of broccoli	Graciano Calva Calva	Mexico
EIN-P-024	Expression and purification of human proinsulin from hairy root culture of <i>Brassica oleracea var. italica</i> (broccoli).	Graciano Calva Calva	Mexico
EIN-P-025	Modelling of biochemical processes for efficient enzymes production	Monica Roman	Romania
EIN-P-026	Rapid non-enzymatic method for molecular typing of <i>Saccharomyces cerevisiae</i> by uni and two-dimensional pulsed field minigel electrophoresis	Yenis Santamaría Casola	Cuba
EIN-P-027	Liposomal encapsulation of house dust mite allergens and dexamethasone modulates allergic response in a murine model of asthma	Y. Pérez Llano	Cuba
EIN-P-028	Immune intrathecal response associated to dengue virus. Basis to the development of candidates vaccine	Bárbara Padilla-Docal	Cuba
EIN-P-029	A novel tetravalent formulation combining the four aggregated domain III-capsid proteins, from dengue viruses, induces a functional immune response in mice and monkeys	Edith Suzarte Portal	Cuba

IV Symposium on Infectious Diseases and Vaccines

Thursday 25th

Poster No	Title	Speaker	Country
EIN-P-030	Evaluation of a sepharose CL-4B alternative, used in the immunoaffinity for obtaining the Cuban vaccine against hepatitis B	José Montero Navarro	Cuba
EIN-P-031	Detection of an immunologically important epitope in the active pharmaceutical ingredient of Heberbiovac vaccine	Tatiana Alvarez Martin	Cuba
EIN-P-032	Application of polymerase chain reaction in real time in the diagnosis of samples of animals suspected of having rabies	Yuliet Ramirez	Cuba
EIN-P-033	Recognition of cell antigenic fractions obtained from a native strain of <i>helicobacter pylori</i>	Yuliet Ramirez	Cuba
EIN -P-034	Protective effect of vitamin E in a model of diabetic nephropathy in rats	Lucía González	Cuba
EIN -P-035	The antimicrobial resistance using the diramic method in the Dr. ANTONIO LUACES IRAOLA hospital. A research during one years	Oxana Cabrera Espinosa	Cuba
EIN-P-036	Alpaca single domain antibodies (VHHs) as a tool for fascioliasis diagnosis and treatment	Yenisey Alfonso	Peru
EIN-P-037	Combination of nutritive bases and selective inhibitors in a chromogenic composition for gram-positive cocci.	Dennis Someillan Iglesias	Cuba
EIN-P-038	Nutritional and selective capacity of a chromogenic and fluorogenic diagnostician for salmonella	Ivonne Alfonso Valdés	Cuba
EIN-P-039	Study of recovery and differentiation of aeromonas.spp with different diagnosticians	Diana Rosa Viera Oramas	Cuba
EIN-P-040	Reliability cromocen cnd-c for identification of candida species of clinical interest and health	Tamara Lobaina	Cuba
EIN-P-041	Functional assessment of aerobic hemocen diagnostician during accelerated stability study	Ana Iris Brito González	Cuba
EIN-P-042	Clinical performance evaluation of hemocen aerobic a new hemoculture medium	Raisa Zhurbenko	Cuba
EIN-P-043	Safety of Racotumomab in the treatment of patients with non-small cell lung cancer	Leslie Pérez	Cuba
EIN-P-044	Cold chain: distribution of the investigation new drug of clinical trial.	Leslie Pérez	Cuba

IV Symposium on Infectious Diseases and Vaccines

Thursday 25th

Poster No	Title	Speaker	Country
EIN-P-045	Methicillin-resistant Staphylococcus aureus isolated from skin infection.	Aylin Álvarez Carballo	Cuba
EIN-P-046	Study on stability of subsidiary GUEFAST KITS for the isolation of genomic DNA from bacteria and yeasts.	Esperanza Niubó Crespo	Cuba
EIN-P-047	Diagnosis of the urinary infection by the culture of the urine. Using the Diramic method in Dr. Antonio Luaces Iraola hospital. A research during two years	Lazaro Robert Companini	Cuba
EIN-P-048	Evaluation of a new nanocomposite for the rapid detection of <i>E. coli</i>	Claudio Rodríguez Martínez	Cuba

Oral Presentations

Session 5

Room:

5

Chairman: Dr. Talena Ledón Pérez (Cuba)

Secretary: Dr. Karen Marrero Domínguez (Cuba)

Time	Title	Speaker	Country
14:00-14:20	Purification of p24 kDa protein of the Human immunodeficiency virus type 1 from a new formulation of inactivated antigen. EIN-O-016.	Anitza Fragas Quintero	Cuba
14:20-14:40	Phage carrying human domain antibody (Dab) fragment recognizes Gamma Interferon in the sera of tuberculosis patients. EIN-O-017.	Fidel Ramirez Bencomo	Cuba
14:40-15:00	Discussion and Comments		
15:00-15:20	Coffee break		
15:20-15:40	Genotypic diversity of extended spectrum Beta-lactamase (ESBL) producing <i>Escherichia coli</i> isolates in a clinical surgical hospital in Havana, Cuba. EIN-O-018.	Leonora González Mesa	Cuba
15:40-16:00	Broad and functional T cell immune response following immunization with hepatitis c virus proteins-based vaccine formulated with polyester beads. EIN-O-019.	Beatriz Piniella	Cuba
16:00-16:20	Analysis of mechanical resistance of Sepharose gels immunoabsorbent and its impact on the HBsAg purification. EIN-O-020.	Yenisley Medina Zarut	Cuba
16:20-17:00	Tuberculosis using a system expert nursing care project PAPIIT IT 202614. EIN-O-021.	Sofía del C. Sánchez	Mexico
17:00-17:15	Discussion and Comments		
17:15-17:30	Closing Words and Final Photograph		

Oral Presentations

Session 1: Medical Applications of Ozone.

Room:

11

Chairman: Dr. Silvia Menéndez Cepero (Cuba)

Secretary: Dr. José Luis Calunga Fernández (Cuba)

Time	Title	Speaker	Country
09:00-09:10	Workshop opening words		
09:10-10:00	Cuban contribution to ozone therapy development during the last 29 years. AMO-L-01	Silvia Menéndez Cepero	Cuba
10:00-10:15	Oxidative stress level analysis for individualized monitoring and useful approach in ozone therapy of infectious diseases AMO-O-001	Liset Gil del Valle	Cuba
10:15-10:30	<i>In vitro</i> effect of ozone in phagocytic function of leucocytes in peripheral blood. AMO-O-002	Jacqueline Diaz Luis	Cuba
10:30-10:45	Ozone therapy and immunomodulation. AMO-O-003	Carlos Lázaro Pérez García	Colombia
10:45-11:00	Coffee break		
11:00-11:15	Results of the study of the sensibility to the contrast in patients with typical retinosis pigmentary treated with ozone. AMO-O-004	Mirta Copello Noblet	Cuba
11:15-11:30	Ozone therapy in patients with <i>immunoglobulin a</i> deficiency. AMO-O-005	Jacqueline Díaz Luis	Cuba
11:30-11:45	Ozone, inflammation and activation of the immune response against pathogenic. Presentation of clinical cases. AMO-O-006	Carlos Lázaro Pérez García	Colombia
11:45-12:00	Ozone therapy in patients with cardiopathy diseases. AMO-O-007	Ana Carballo	Cuba
12:00-12:15	Ozone therapy in chronic amigdalitis. AMO-O-008	Lázaro Silva Matos	Cuba
12:15-12:30	Ozone therapy in orthopedics. AMO-O-009	Rodolfo León	Cuba
12:30-13:00	Posters presentation and discussion		
13:00	Lunch		

Poster Presentations

Session 2: Medical Applications of Ozone and Ozonized Vegetable Oils

Chairman: Dr. José Luis Calunga Fernández (Cuba)

Room:
12

Time: 12:30-13:00

Poster No.	Title	Main Author	Country
AMO-P-001	Validation of peroxide analytical method in vaginal suppositories	Bárbara Manet	Cuba
AMO-P-002	Evaluation of the antibacterial action <i>in vitro</i> of OLEOZON® and other ozonized vegetable oils.	Angela Zayas	Cuba
AMO-P-003	Microbian limit verification of oral OLEOZON® applying USP 35 NF 30.	Grether Barrera	Cuba
AMO-P-004	Stability studies of vaginal suppositories from ozonized theobroma oil.	Rosa Ibis Meneau	Cuba
AMO-P-005	Experience of therapy with ozone in the Pain and Ozone therapy Clinic of Calixto Garcia Hospital. January-June 2014	Migdalia León Rojas	Cuba
AMO-P-006	Evaluation of a new plant to produce Topic OLEOZON®	Mayelín Echevarría Chávez	Cuba

Oral Presentations

Session 3: Medical Applications of Ozone

Chairman: Dr. José Luis Calunga Fernández (Cuba)

Secretary: Dra. Zullyt Zamora Rodríguez (Cuba)

Room:

11

Time	Title	Speaker	Country
14:00-14:15	Application of ozone therapy in patients with knee osteoarthritis. AMO-O-010	José Luis Calunga Fernández	Cuba
14:15-14:30	Ozone therapy as therapeutic complementary tool in Infantile Mixed Cerebral Paralysis. AMO-O-011	Benjamín Arenas Falcón	Cuba
14:30-14:45	Presentation of a case of neuro-infectious diabetic foot treated with ozone therapy. AMO-O-012	José Luis Calunga Fernández	Cuba
14:45-15:00	Efficacy and tolerance of ozone therapy in veno-lymphatic affections. AMO-O-013	Esther Lilia Torres Damas.	Cuba
15:00-15:15	Integral rehabilitation and ozone therapy in the patient with cerebral heart attack in sub-acute stage. AMO-O-14	Martha V. Castro Espinosa	Cuba
15:15-16:00	Coffee break		
16:00-16:15	The mixture ozone/oxygen as immunomodulator agent and its perspective of use in Veterinary Medicine. AMO-O-15	Zullyt Zamora Rodríguez	Cuba
16:15-16:30	System for functional state estimation of cell membranes. AMO-O-16	Tatiana Barkhotkina	Ukraine
16:30-16:45	The immunostimulating effect of ozone/oxygen mixture applied through rectal via in canines with oncological diseases. AMO-O-17	Juan Carlos Rodríguez	Cuba
16:45-17:00	Ozone bagging technique for an abscess treatment in a dog. Preliminary report of a clinical case. AMO-O-18	Susana G. Gayón Amaro	Mexico
17:00-17:15	Ozone for equine laminitis treatment. AMO-O-019	Eduardo Flores Colín	Mexico
17:15-17:30	Discussion and Comments		

Oral Presentations

**Session 4: Ozonated Vegetable Oils and its Medical
Applications**

Room:

11

Chairman: Dr. Oscar E. Ledea Lozano (Cuba)

Secretary: Dr. Lidia Asela Fernández García (Cuba)

Time	Title	Speaker	Country
14:00-14:15	Determination of Absorption Spectrum of Topical Solution OLEOZON® by Diffuse Reflection Spectroscopy. AMO-O-020	J.A. Delgado Atencio	Mexico
14:15-14:30	Physical-chemical characterization of ozonized vegetable oils with pharmaceutical and cosmetological interest. AMO-O-021	Oscar E. Ledea Lozano	Cuba
14:30-14:45	The ozonized oils, demonstrated antimicrobial properties and perspectives. AMO-O-022	Irán Fernández	Cuba
14:45-15:00	Treatment with topical OLEOZON of patients infected with human papilloma virus in the last 10 years. AMO-O-023	Roy Mariño	Cuba
15:00-15:15	Applications of OLEOZON in stomatology. AMO-O-024	Yudith Martinez	Cuba
15:15-15:30	Preventive and therapeutic effects of ozonized sunflower oil oral use in the colibacilosis of piglets. AMO-O-025	Zullyt Zamora	Cuba
15:30-15:45	Effects of ozonized sunflower oil eye drops as treatment for dry keratoconjunctivitis in canines AMO-O-026	Beatriz Hugues	Cuba
15:45-16:00	Coffee break		
16:00-16:15	Triolein characterization in presence of suspensors agents. AMO-O-027	Lidia Asela Fernández	Cuba
16:15-16:30	Ozonation of a simple triglycerid present in sunflower oil. AMO-O-028	Daylenis Espinosa	Cuba
16:30-16:45	Ozonation of an unsaturated triglycerid in acid media. AMO-O-029	Katerina Hernández	Cuba
16:45-17:00	Revision of rheological properties of oily substances for topic applications. AMO-O-30	Daniela Flores	Cuba
17:00-17:15	Closing Words and Final Photograph		

Oral Presentations

Session 1

Room:

9

Chairman: Dr. Luciene Ferreira Gaspar Amaral (Brazil)

Secretary: MSc. Beatriz García Delgado (Cuba)

Time	Title	Speaker	Country
09:00-09:10	Opening words		
09:10-09:30	Analysis of drug patentability criteria in Costa Rica, from the information contained in patent documents. VIG-O-001.	German L. Madrigal	Costa Rica
09:30-09:50	Application of patent information for the development of pharmaceutical colloidal systems. VIG-O-002.	German L. Madrigal	Costa Rica
09:50-10:10	Technology mapping: leukemia treatment. VIG-O-003.	Luciene Ferreira Gaspar Amaral	Brazil
10:10-10:30	Patent information and its application in health care: the case of Saint John's Hospital in Porto, Portugal. VIG-O-004.	Angela Machado Rocha	Brazil
10:30-10:45	Discussion and Comments		
10:45-11:00	Coffee break		
11:00-11:20	Technological prospecting of femoral stems implants used in total hip arthroplasty. VIG-O-005.	Victor Costa Macêdo Ferraz	Brazil
11:20-11:40	Generation of knowledge and R & D + i: Carbon nanoionics case. VIG-O-006.	Beatriz García	Cuba
11:40-12:00	Generating knowledge for continuous measurement and distance from corrosion. Using patent information. VIG-O-007.	Francisco E. Corvo Perez	Cuba
12:00-12:20	Impact of technological surveillance trademark in the trademark strategy of the company. VIG-O-008.	Emilia Horta Herrera	Cuba
12:20-12:40	Trademarks and access to drugs. VIG-O-009.	Hosanna Rodríguez	Cuba
12:40-12:50	Management of trademarks towards the BioTrade. VIG-O-010.	Hosanna Rodríguez	Cuba
12:50-13:00	Discussion and Comments		
13:00	Lunch		

Oral Presentations

Session 1

Room:

Chairman: Dr. Leila Cabrera Rabí (Cuba)

Secretary: MSc. Mabel Villanueva Domínguez (Cuba)



Time	Title	Speaker	Country
14:00-14:10	Workshop opening words		
14:10-14:30	Effect of viscosity in poly (vinyl alcohol) solution in the fabrication of electrospun nano fiber and electrospray coats. FFT-O-001.	Luis Jesús Villarreal Gómez	Mexico
14:30-14:40	Experimental and numeric analysis of TSVM6B13 three pieces dental implant system. FFT-O-002.	Mauricio Paz González	Mexico
14:40-15:00	Quality management during the development and technology transfer of new parenteral products. FFT-O-003.	Alicia María Terry García	Cuba
15:00-15:20	Correspondence determination between intermediate and final results reports of clinical assay with vaccine. FFT-O-004.	Pedro Camilo Rodríguez Rodríguez	Cuba
15:20-15:40	Coffee break		
15:40-16:00	Development of the zoledronic acid 5 mg injectable for osteoporosis treatment. FFT-O-005.	Yenilen Troche	Cuba
16:00-16:20	Validation of the production processes for diagnostic tools produced in Laboratorios DAVIH. FFT-O-006	Dayamí Martín	Cuba
16:20-16:40	Folic acid quantification in a nutritional supplement in tablet CombiFer®. FFT-O-007.	Yenela García Hernández	Cuba
16:40-17:00	Usefulness of a murine model of respiratory allergy to evaluate different formulations of a antiallergic vaccine. FFT-O-008.	Alain Morejón Calderón	Cuba
17:00-17:20	Soybean lecithin chewable tablets: from a bioproduct to a pharmaceutical product. FFT-O-009.	Martha Zoe Lemus	Cuba
17:20-17:30	Discussion and Comments		

Posters

Session 2

Room:

12

Chairman: MSc. Tania Ortiz Bode (Cuba)

Secretary: MSc. Javier Mosquera Sierra (Cuba)

Time: 9:00-12:00

Poster No	Title	Speaker	Country
FFT-P-001	System for Preventive Planned Maintenance Management.	Carmen Y. Moreno	Cuba
FFT-P-002	Control interface for recording turbidity decay curves of pathogen microorganisms in biological samples.	Carmen Y. Moreno	Cuba
FFT-P-003	Circuit for control and protection against lack of water to treat, for an ozone generator equipment OZONEY-SL.	Carlos M. Pérez	Cuba
FFT-P-004	Programming the electronic card TURB-Z for detecting microbial growing using photostimulation.	Carlos A. Lamothe	Cuba
FFT-P-005	Study on efficiency of general cleaning described for the Production Plants.	Yaisme Balcinde	Cuba
FFT-P-006	Determination of possible impurities in the acetone used as solvent in Policosanol production and its influence in intermediate products.	Yaisme Balcinde	Cuba
FFT-P-007	Equipments production in the Production Division of CNIC. Quality Control.	José Seco	Cuba
FFT-P-008	Risks in quality management in OLEOZON® production.	Tania Ortiz Bode	Cuba
FFT-P-009	Quality management system in medical equipment manufacturing.	Dayanet Guillama	Cuba
FFT-P-010	Safe quality control of OLEOZON® finished product.	Regla Gómez	Cuba
FFT-P-011	Integrated management system based on standards NC-ISO 9001:2008 and resolution Nº. 60/2011 for the Management and Logistics Division in CNIC, a BioCubaFarma enterprise.	Idania Hurtado	Cuba

Time: 9:00-12:00

Poster No	Title	Speaker	Country
FFT-P-012	Implementation of a process system in the Management and Logistics Division, for the continuous improvement.	Idania Hurtado	Cuba
FFT-P-013	Characterization of the pressure transductor MPX50GP, in biomedical applications.	Adrien Rodríguez	Cuba
FFT-P-014	Process validation based on the initial analysis of critical nature.	Michael Herrera	Cuba
FFT-P-015	Prototype of a new ozone generator for medical use OZOMED, using a microcontroller.	Alexis González	Cuba
FFT-P-016	Biochemical reactor of pneumatic energy.	Jorge Abreu Menéndez	Cuba

Oral Presentations

Session 1

Room:

7

Chairman: Dr. Victor Costa Macêdo Ferraz (Brazil)

Secretary: Dr. German L. Madrigal Redondo (Costa Rica)

Time	Title	Speaker	Country
14:00-14:10	Session opening words		
14:10-14:30	Innovative applications for the determination and identification <i>Neocuasina cuasina</i> and of extract of stems present in <i>Quassia amara</i> (<i>Simaroubaceae</i>) INN-O-001.	Karla Mora Fallas	Costa Rica
14:30-14:50	Innovation for development of a naturally derived surfactant based <i>Sapindus saponaria saponins</i> as a substitute for sodium lauryl sulfate in pharmaceutical formulations. INN-O-002.	Verónica Vargas Esquibel	Costa Rica
14:50-15:10	Implementation of a new socioeconomic model for managing innovation in artisanal, small and medium enterprises in the pharmaceutical field in Costa Rica. INN-O-003.	German L. Madrigal	Costa Rica
15:10-15:30	Industrial and Technology Policy in South Korea: lessons for Latin America. INN-O-004.	Bernardo Olmedo	Mexico
15:30-16:00	Coffee break and poster presentations		
16:00-16:20	The science of simulation: kinesthetic and haptic guidance training. INN-O-005.	Rosario Barrera Gálvez	Mexico
16:20-16:40	System of indicators for assessing the development of a high technology organization of experts. INN-O-006.	Elizabeth González Olaguive	Cuba
16:40-17:00	Raising the Bar: Recognizing the intricacies of cultural and ecological knowledge (CEK) in natural resource management. INN-O-007.	Dan Orchertohn	Fiji Islands
17:00-17:35	Training Managers in Cuba with focus of innovation. INN-L-001.	Mercedes Delgado	Cuba
17:35-17:45	Discussion and Comments		
17:45-17:50	Closing Words and Final Photograph		

Posters

Session 2

Chairman: *Dr. Angela Machado Rocha*

Room:

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Time: 15:40-16:10

Poster No	Title	Speaker	Country
INN-P-001	Identification of user needs: Importance for knowledge generation studies for the R+D+i. INN-P-001	Nicolás M. Rodriguez	Cuba
INN-P-002	Attitude of the postgraduate participant of the Fermín Toro University to the development of master's degree work. INN-P-002	Gainioska and Gaidibeth Linares	Venezuela

Oral Presentations

Session 1: New metrics and research evaluation

Chairman: Dr. Humberto Carrillo Calvet (Mexico)

Secretary: MSc. Juan A. Araujo Ruiz (Cuba)

Room:

7

Time	Title	Speaker	Country
09:00-09:10	Workshop opening words		
09:10-09:35	SciELo Citation Index, a good initiative but not yet reliable: the case of Peruvian domain (1997-2014). CIE-O-001.	Josmel Pacheco-Mendoza	Peru
09:35-10:00	Using 56bibliométrica rankings and Self Organizing Maps to analyze performance of Mexican Universities. CIE-O-002.	Elio Atenógenes Villaseñor	Mexico
10:00-10:25	Elsevier's journal metrics for the identification of the most visible Mexican mainstream journals core in 2013. CIE-O-003.	Humberto Carrillo Calvet	Mexico
10:25-10:50	Transnational knowledge networks: revealing the potential of expatriated scientists and engineers. CIE-O-004.	Miriam Palacios Callender	UK
10:50-11:00	Discussion and Comments		
11:00-11:20	Coffee break		
11:20-11:40	The private and public life of a Cuban scientific paper. CIE-O-005.	Alberto Juan Dorta-Contreras	Cuba
11:40-12:00	Bibliometric study of Revista Cubana de Farmacia in the period 1995-2013. CIE-O-006.	Osvaldo Machado-Rivero	Cuba
12:00-12:20	Characterization of the scientific production in the Military Hospital of Matanzas during the quadriennium 2011-2014. CIE-O-007.	Junior Vega Jiménez	Cuba
12:20-12:40	Bibliometric study of scientific production in mainstream journals of the International Center of Neurological Restoration. CIE-O-008.	María Luisa Rodríguez Cordero	Cuba
12:40-13:00	Student's Publication in Cuban Medical Journals 1995-2015. CIE-O-009.	Javier González-Argote	Cuba
13:00-13:10	Discussion and Comments		
13:10	Lunch		

Oral Presentations

Session 2: Scientometrics and Social Sciences

Chairman: Dr. Yaniris Rodríguez-Sánchez (Cuba)

Secretary: MSc. Josmel Pacheco-Mendoza (Peru)

Room:

7

Time	Title	Speaker	Country
14:30-14:40	Session opening words		
14:40-15:00	Bibliometric analysis of Cuban university using Business Intelligence. CIE-O-010.	Darlenis Herrera-Vallejera	Cuba
15:00-15:20	The Bibliometric like tool for knowledge management: social science. CIE-O-011.	Marinelsy Rosario-Sierra	Cuba
15:20-15:40	Multidimensional bibliometric analysis of Information Sciences in Latin America and the Caribbean. CIE-O-012.	Rubén Perdomo-Sánchez	Cuba
15:40-16:00	Bibliometric study about “Drug information services” in Scopus and Web of Science during the period 2000-2013. CIE-O-013.	Osvaldo Machado-Rivero	Cuba
16:00-16:20	Coffee break		
16:20-16:40	Structural analysis of scientific critics published in Revista Cubana de Información en Ciencias de la Salud 2010-14. CIE-O-014.	William Castillo-González	Cuba
16:40-17:00	Study of the Cuban scientific production about osteoporosis. A metrical analysis in Scopus in the period 1943-2014.. CIE-O-015.	Alianna Formoso Mieres	Cuba
17:00-17:20	International Visibility: a strategic objective of National Science. CIE-O-016.	Ricardo Arencibia-Jorge	Cuba
17:20-17:30	Discussion and Comments		

Oral Presentations

Session 3: Scientometrics and decisions-making processes

Room:

7

Chairman: Dr. Ing. Marc Nyssen (Belgium)

Secretary: Dr. Rosa Lidia Vega-Almeida (Cuba)

Time	Title	Speaker	Country
09:00-09:10	Session opening words		
09:10-09:35	Contemporary Scientometrics Issues – Does One Size Fit All? CIE-O-017.	Denis Trček and Tamara Trček Pečak	Slovenia
09:35-10:00	Science Policy and The Gap between Policy Makers and Researchers in Turkey. CIE-O-018.	Duygu Luleci	Turkey
10:00-10:25	Current capacity of Turkish health system: a multi dimensional analysis. CIE-O-019.	Bulent Kilic	Turkey
10:25-10:50	IEEE-EMBS International Conferences on Biomedical and Health Informatics BHI 2014: Reporting from a metric point of view. CIE-O-020.	Yelina Piedra-Salomón	Cuba
10:50-11:00	Discussion and Comments		
11:00-11:20	Coffee break		
11:20-11:40	Bibliometric study of the world scientific production on Internet addiction 2005-2014. CIE-O-021.	Rosa Lidia Vega-Almeida	Cuba
11:40-12:00	The river shrimp of <i>Macrobrachium</i> genus with importance for business: a patentometric view. CIE-O-022.	Olimpia Wong Carrillo	Cuba
12:00-12:20	Bibliometric analysis of research on diabetic foot ulcers in Scopus from 2000 to 2014. CIE-O-023.	Ernesto Galban Rodríguez	Cuba
12:20-12:40	The Leiden Manifesto and well practices of Research Metrics. CIE-O-024.	Juan A. Araujo Ruiz	Cuba
12:40-12:50	Discussion and Comments		
12:50-13: 00	Workshop Closing Words and Final Photograph		
13:00	Lunch		

Films Exhibition

Session 1: Science and Media

Chairman: Clara del Carmen Llanes Sánchez (Cuba)

Secretary: Omelio Borroto Leyseca (Cuba)

Room:

6

Time	Activity
08:30-08:40	Opening words
08:40-10:40	Films exhibition
10:40-10:50	Discussion and Comments
10:50-11:00	Coffee break
11:00-12:20	Films exhibition
12:20-12:30	Discussion and Comments
12:30	Lunch

Session 2: Environmental Sciences

Room:

Chairman: Marco Deluca (Italy)

Secretary: Yoandra Alvarez (Cuba)

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Time	Activity
14:00-15:35	Films exhibition
15:35-15:45	Discussion and Comments
15:45-16:00	Coffee break
16:00-17:20	Films exhibition
17:20-17:30	Questions and Comments

Films Exhibition

Session 3: Biomedical Sciences

Room:

6

Chairman: Irma Atte de Ceballos (Argentina)

Secretary: PierCarlo Porporato (Italy)

Time	Activity
08:30-08:40	Opening words
08:40-10:40	Films exhibition
10:40-10:50	Discussion and Comments
10:50-11:00	Coffee break
11:00-12:20	Films exhibition
12:20-12:30	Discussion and Comments
12:30	Lunch

Session 4: Multidisciplinary Sciences

Room:

6

Chairman: Pablo Kühnert (Argentina)

Secretary: Santiago Montecchia (Argentina)

Time	Activity
14:00-15:35	Films exhibition
15:35-15:45	Discussion and Comments
15:45-16:00	Coffee break
16:00-17:20	Films exhibition
17:20-17:30	Questions and Comments

Session 5: Deliberation and Awards Ceremony

Room:

6

Chairmans: Clara del Carmen Llanes Sánchez (Cuba)

Marco Deluca (Italy), President of the Jury

Secretary: Irma Atte de Ceballos (Argentina)

Time	Activity
09:30-11:00	Jury's Deliberation
11:00-12:30	VIDEOCIENCIA 2015 Awards Ceremony
12:30	Lunch

